

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-6. (canceled).

1           7. (previously presented) An iris camera module ,  
2 comprising:  
3           an image pickup optical system for picking up an image of  
4           the iris;  
5           a target optical system for displaying a target for the  
6           eye; and  
7           a target screen where the target is displayed, wherein  
8           the target optical system and the image pickup optical  
9           system are integrated into a single unit, and  
10          wherein  
11          the image pickup optical system includes:  
12           an infrared illuminating section for irradiating an  
13           infrared ray onto the eye,  
14           an image pickup section for picking up the image of  
15           the iris by detecting the infrared ray reflected  
16           on the eye, and  
17           an image pickup optical section for guiding the  
18           infrared ray reflected on the eye to the image  
19           pickup section; and  
20          wherein the target optical system includes a target  
21           optical section for guiding the image of the target  
22           on the target screen to the eye; and further  
23          wherein  
24          the image pickup section includes:  
25           an image pickup element for picking up the image of  
26           the iris,

27           a storage for storing a reference iris information,  
28           and  
29           a comparator section for comparing an information  
30           based on the image of the iris picked up by the  
31           image pickup section with the reference iris  
32           information to output the comparison result as  
33           to whether matching is obtained; and  
34       wherein the reference iris information can be overwritten  
35           only a predetermined number of times in the storage.

Claims 8-14 (canceled).

1       15. (currently amended) An iris camera module comprising:  
2       an image pickup optical system for picking up an image of  
3       the iris of a user; and  
4       a target optical system including a target screen for  
5       displaying a target for aligning the eye of the  
6       user, wherein the target optical system and the  
7       image pickup optical system are integrated onto a  
8       common substrate; wherein the image pickup optical  
9       system includes:  
10       an infrared illuminating section for irradiating an  
11       infrared ray onto the eye,  
12       an image pickup section for picking up the image of  
13       the iris by detecting the infrared ray  
14       reflected on the eye, and  
15       an image pickup optical section for guiding the  
16       infrared ray reflected on the eye to the image  
17       pickup section,  
18       and further wherein the target optical system includes a  
19       target optical section for guiding the image of the  
20       target on the target screen to the eye; and wherein  
21       the image pickup section further includes:

22           an image pickup element for picking up the image of  
23           the iris;  
24           a storage for storing a reference iris information;  
25           and  
26           a comparator section for comparing an information  
27           based on the image of the iris picked up by the  
28           image pickup section with the reference iris  
29           information to output the comparison result as  
30           to whether matching is obtained,  
31   ~~An iris camera module according to claim 14,~~ wherein the  
32           reference iris information can be overwritten only a  
33           predetermined number of times in the storage.

1           16. (currently amended) An iris camera module comprising:  
2           an image pickup optical system for picking up an image of  
3           the iris of a user; and  
4           a target optical system including a target screen for  
5           displaying a target for aligning the eye of the  
6           user, wherein the target optical system and the  
7           image pickup optical system are integrated onto a  
8           common substrate; wherein the image pickup optical  
9           system includes:  
10           an infrared illuminating section for irradiating an  
11           infrared ray onto the eye,  
12           an image pickup section for picking up the image of  
13           the iris by detecting the infrared ray  
14           reflected on the eye, and  
15           an image pickup optical section for guiding the  
16           infrared ray reflected on the eye to the image  
17           pickup section; and wherein  
18           the target optical system includes a target optical  
19           section for guiding the image of the target on  
20           the target screen to the eye;

21     ~~An iris camera module according to claim 10,~~ wherein the  
22         image pickup section further includes:  
23     an image pickup element for picking up the image of the  
24         iris; and  
25     a connector section for coupling an external circuit  
26         detachable from the image pickup section,  
27     and wherein the external circuit includes:  
28         a storage for storing a reference iris information;  
29         and  
30         a comparator section for comparing [[an]]  
31             information based on the iris picked up by the  
32             image pickup section with the reference iris  
33             information to output the comparison result as  
34             to whether matching is obtained.

1         17. (previously presented) An iris camera module  
2     comprising:  
3         an image pickup optical system for picking up an image of  
4             the iris of a user;  
5         a target optical system for displaying a target for  
6             aligning the eye of the user;  
7         a storage for storing a reference iris information; and  
8         a comparator section for comparing an information based  
9             on the image of the iris picked up by the image  
10            pickup section with the reference iris information  
11            to output the comparison result as to whether  
12            matching is obtained, wherein  
13         the reference iris information can be overwritten only a  
14            predetermined number of times in the storage.

18. (canceled).

1         19. (previously presented) An iris camera module  
2     comprising:

3       an image pickup optical system for picking up an image of  
4       the iris of a user, said image optical system  
5       including:  
6       an illuminating section for irradiating a ray onto  
7       the eye;  
8       an image pickup section for picking up the image of  
9       the iris by detecting the ray reflected on the  
10       eye; and  
11       an image pickup optical section for guiding the ray  
12       reflected on the eye to the image pickup  
13       section;  
14       a target optical system for displaying a target for  
15       aligning the eye of the user, said target optical  
16       system including:  
17       a target screen;  
18       a target optical section for guiding the image of  
19       the target on the target screen to the eye; and  
20       a screen illuminating section for illuminating the  
21       target screen with either ambient light or  
22       artificial light;  
23       a storage for storing a reference iris information; and  
24       a comparator section for comparing an information based  
25       on the image of the iris picked up by the image  
26       pickup section with the reference iris information  
27       to output the comparison result as to whether  
28       matching is obtained, wherein  
29       the reference iris information can be overwritten only a  
30       predetermined number of times in the storage.

1       20. (previously presented) An iris camera module  
2       according to claim 19, wherein the image pickup optical  
3       section and the target optical section include a common half  
4       mirror for reflecting to guide the infrared ray reflected on  
5       the eye to the image pickup section and guiding the image of

6 the target on the target screen to the eye without reflecting  
7 the image.

1 21. (previously presented) An iris camera module  
2 according to claim 19, wherein the image pickup optical  
3 section and the target optical section include a common half  
4 mirror for guiding the infrared ray reflected on the eye to  
5 the image pickup section without reflecting the infrared ray  
6 and reflecting to guide the image of the target on the target  
7 screen to the eye.

Claims 22-38 (deleted).